

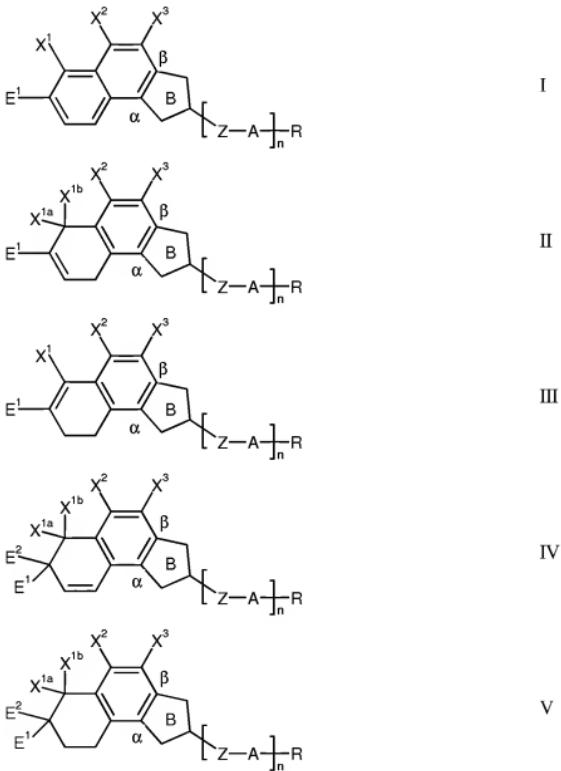
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

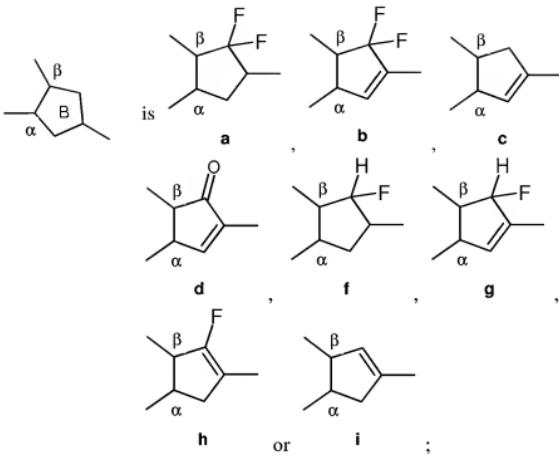
1. (Currently Amended) A cyclopenta[a]naphthalene compound of formula I, II, III, IV or V

DO NOT ENTER: /SW/

09/07/2008



in which:



A is in each case, independently of one another, 1,4-phenylene, in which $=\text{CH}-$ may be replaced once or twice by $=\text{N}-$, and which may be monosubstituted to tetrasubstituted, independently of one another, by halogen ($-\text{F}$, $-\text{Cl}$, $-\text{Br}$, $-\text{I}$), $-\text{CN}$, $-\text{CH}_3$, $-\text{CH}_2\text{F}$, $-\text{CHF}_2$, $-\text{CF}_3$, $-\text{OCH}_3$, $-\text{OCH}_2\text{F}$, $-\text{OCHF}_2$ or $-\text{OCF}_3$, 1,4-cyclohexylene, 1,4-cyclohexenylene or 1,4-cyclohexadienylene, in which $-\text{CH}_2-$ may in each case be replaced once or twice, independently of one another, by $-\text{O}-$ or $-\text{S}-$ in such a way that heteroatoms are not linked directly, and which all may be monosubstituted or polysubstituted by halogen;

Z is in each case, independently of one another, a single bond, a double bond, $-\text{CF}_2\text{O}-$, $-\text{OCF}_2-$, $-\text{CH}_2\text{CH}_2-$, $-\text{CF}_2\text{CF}_2-$, $-\text{CF}_2\text{CH}_2-$, $-\text{CH}_2\text{CF}_2-$, $-\text{CHF-CHF}-$, $-\text{C}(\text{O})\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{CH}_2\text{O}-$, $-\text{OCH}_2-$, $-\text{CF=CH}-$, $-\text{CH=CF}-$, $-\text{CF=CF}-$, $-\text{CH=CH-}$ or $-\text{C}\equiv\text{C}-$;

R is hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted, monosubstituted by -CN or -CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SCN, -NCS, -SF₅, -CF₃, -OCF₃, -OCHF₂ or -OCH₂F;

X¹, X^{1a}, X^{1b}, X² and X³ are each, independently of one another, hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SF₅, -SCN, -NCS, -CF₃, -OCF₃, -OCHF₂ or -OCH₂F;

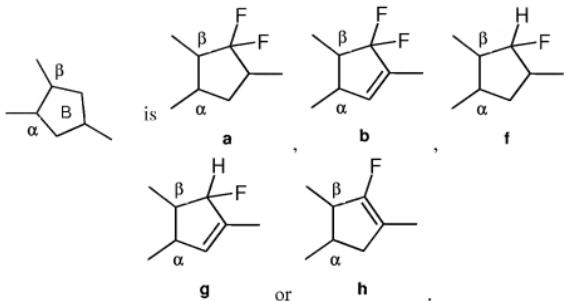
E¹ and E² are each, independently of one another, hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted, monosubstituted by -CN or -CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SCN, -NCS, -SF₅, -CF₃, -OCF₃, -OCHF₂, -OCH₂F or -(Z-A-)_n-R; and

n is 0, 1, 2 or 3;

where

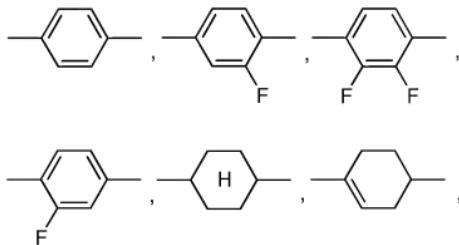
in the formula I, ring B does not stand for the formula c if X¹, X² and X³ are simultaneously hydrogen, and

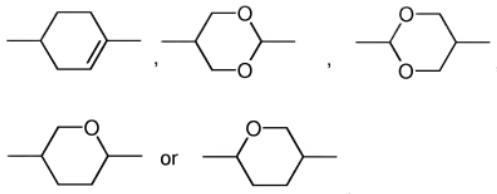
2. (Previously Presented) A cyclopenta[a]naphthalene compound according to
Claim 1, wherein



3. (Previously Presented) A cyclopenta[a]naphthalene compound according to
Claim 1, wherein
Z is a single bond, -CF₂O-, -OCF₂-, -CF₂CF₂-, -CH=CH-, -CF=CH-,
-CH=CF- or -CF=CF-.

4. (Previously Presented) A cyclopenta[a]naphthalene compound according to
claim 1, wherein
A is





5. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 1, wherein
 R is an alkyl radical, alkoxy radical or alkenyl radical having from 1 to 7 or 2 to 7 carbon atoms respectively.

6. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 1, wherein
 E^1 and E^2 , independently of one another, are hydrogen, an alkyl radical or alkoxy radical having from 1 to 7 carbon atoms, fluorine, chlorine or $-(Z-A)_n-R$, in which n is 1, Z is a single bond, A is 1,4-cyclohexylene or optionally mono- or poly-fluorine-substituted 1,4-phenylene, and R is alkyl, alkoxy or alkenyl having from 1 to 7 or 2 to 7 carbon atoms respectively.

7. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 1, wherein
at least one of X^1 , X^2 and X^3 or at least one of X^{1a} , X^{1b} , X^2 and X^3 is $-CF_3$, fluorine or chlorine.

8. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 1, wherein
 X^1 , X^2 and X^3 or X^{1a} , X^{1b} , X^2 and X^3 are $-CF_3$, fluorine and/or chlorine.

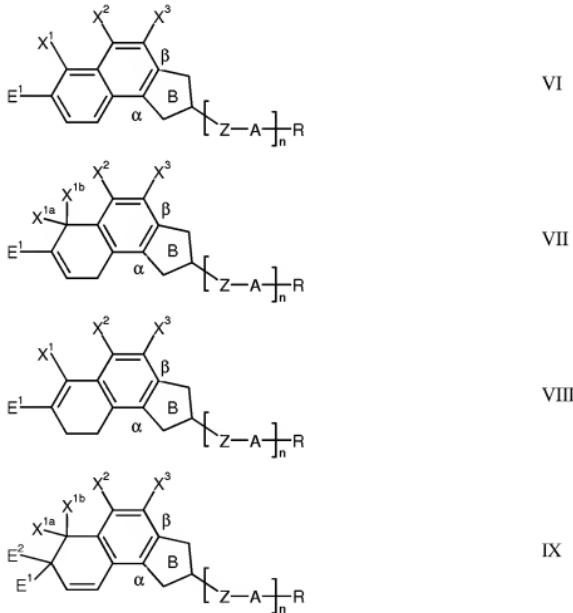
9. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 1, wherein
 X^1 , X^2 and X^3 or X^{1a} , X^{1b} , X^2 and X^3 are fluorine.

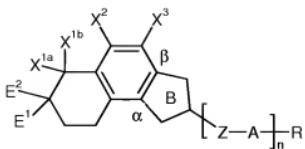
10. (Canceled)

11. (Previously Presented) A liquid-crystalline medium comprising at least two liquid-crystalline compounds, wherein at least one liquid-crystalline compound is a cyclopenta[a]naphthalene compound according to claim 1.

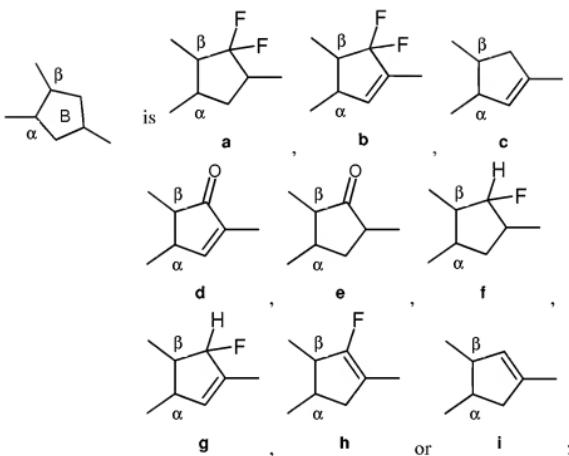
12. (Previously Presented) An electro-optical display element containing a liquid-crystalline medium according to Claim 11.

13. (Currently Amended) A cyclopenta[a]naphthalene compound of formula I, II, III, IV or VVI, VII, VIII, IX or X,





in which:



A is in each case, independently of one another, 1,4-phenylene, in which =CH- may be replaced once or twice by =N-, and which may be monosubstituted to tetrasubstituted, independently of one another, by halogen (-F, -Cl, -Br, -I), -CN, -CH₃, -CH₂F, -CHF₂, -CF₃, -OCH₃, -OCH₂F, -OCHF₂ or -OCF₃, 1,4-cyclohexylene, 1,4-cyclohexenylene or 1,4-cyclohexadienylene, in which -CH₂- may in each case be replaced once or twice, independently of one another, by -O- or -S- in such a way that heteroatoms are not linked directly, and which all may be monosubstituted or polysubstituted by halogen;

Z is in each case, independently of one another, a single bond, a double bond, -CF₂O-, -OCF₂-, -CH₂CH₂-, -CF₂CF₂-, -CF₂CH₂-, -CH₂CF₂-, -CHF-CHF-, -C(O)O-, -OC(O)-, -CH₂O-, -OCH₂-, -CF=CH-, -CH=CF-, -CF=CF-, -CH=CH- or -C≡C-;

R is hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted, monosubstituted by -CN or -CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SCN, -NCS, -SF₅, -CF₃, -OCF₃, -OCHF₂ or -OCH₂F;

X¹, X^{1a}, X^{1b}, X² and X³ are each, independently of one another, hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SF₅, -SCN, -NCS, -CF₃, -OCF₃, -OCHF₂ or -OCH₂F;

E¹ and E² are each, independently of one another, hydrogen, an alkyl, alkoxy, alkenyl or alkynyl radical having from 1 to 15 or 2 to 15 carbon atoms respectively which is unsubstituted, monosubstituted by -CN or -CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups in these radicals may each, independently of one another, be replaced by -O-, -S-, -CO-, -COO-, -OCO- or -OCO-O- in such a way that heteroatoms are not linked directly, halogen, -CN, -SCN, -NCS, -SF₅, -CF₃, -OCF₃, -OCHF₂, -OCH₂F or -(Z-A-)_nR; and

n is 0, 1, 2 or 3;

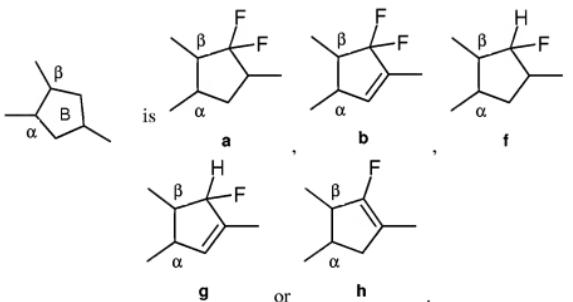
where

in the formula I, ring B does not stand for the formula e if X^1 , X^2 and X^3 are simultaneously hydrogen,

in formula I, ring B does not stand for formula e if X^2 and X^3 are simultaneously fluorine or if E^1 is hydrogen and simultaneously X^1 and X^2 are fluorine and

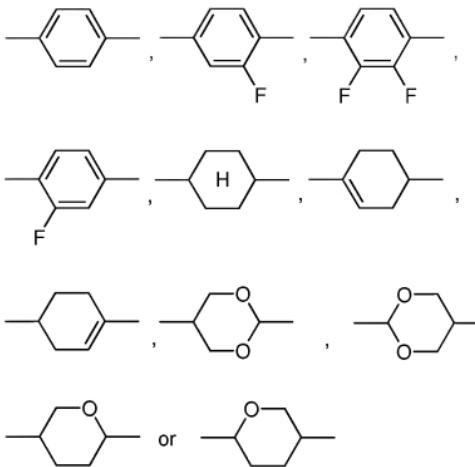
at least one of X^1 , X^2 and X^3 or at least one of X^{1a} , X^{1b} and X^2 and X^3 is $-CF_3$, fluorine and/or chlorine.

14. (Previously Presented) A cyclopenta[a]naphthalene compound according to
Claim 13, wherein



15. (Previously Presented) A cyclopenta[a]naphthalene compound according to
Claim 13, wherein
Z is a single bond, $-CF_2O-$, $-OCF_2-$, $-CF_2CF_2-$, $-CH=CH-$, $-CF=CH-$,
 $-CH=CF-$ or $-CF=CF-$.

16. (Previously Presented) A cyclopenta[a]naphthalene compound according to
claim 13, wherein
A is



17. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 13, wherein

R is an alkyl radical, alkoxy radical or alkenyl radical having from 1 to 7 or 2 to 7 carbon atoms respectively.

18. (Previously Presented) A cyclopenta[a]naphthalene compound according to claim 13, wherein

E^1 and E^2 , independently of one another, are hydrogen, an alkyl radical or alkoxy radical having from 1 to 7 carbon atoms, fluorine, chlorine or $-(Z-A)_nR$, in which n is 1, Z is a single bond, A is 1,4-cyclohexylene or optionally mono- or poly-fluorine-substituted 1,4-phenylene, and R is alkyl, alkoxy or alkenyl having from 1 to 7 or 2 to 7 carbon atoms respectively.

19. (Previously Presented) A liquid-crystalline medium comprising at least two liquid-crystalline compounds, wherein at least one liquid-crystalline compound is a cyclopenta[a]naphthalene derivative according to claim 13.
20. (Previously Presented) An electro-optical display element containing a liquid-crystalline medium according to Claim 19.